
**Environment, Health, & Safety
Training Program**

EHS 431 ~ Contamination Control at Building-88

Course Syllabus

Subject Category: Radiation Protection
Course Length: 2.5 hrs.
Delivery Mode: Class
Schedule: As needed
Location/Time: Bldg. 88 Commons

Course Prerequisite: EHS 405 & EHS 400
Medical Approval: No

Course Purpose: To provide training commensurate with a job assignment that requires an employee to work in a radioactive contamination area at Building-88. This course is designed to inform employees of the proper work practices and requirements needed for work in a contamination area, and to enable them to work safely within such areas. This course is mandatory prior to commencing work in a contamination area at Building-88 under any Radiation Work Authorizations (RWAs) or Radiation Work Permits (RWPs). Other radiation protection courses may also be required and will be specified in the RWA, or RWP covering the work.

Course Objectives: EH&S 431 covers the following topics:

- Basic radiological fundamentals and radiation protection concepts
- Describes the differences between fixed, removable, and airborne contamination.
- Contamination Area, High Contamination Area, and Airborne Contamination Area will be defined.
- Describes sources of radioactive contamination.
- Describes the various controls used to minimize and control radioactive contamination, such as preventative methods, engineering controls, personnel protective measures, administrative controls and decontamination.
- Describes the proper actions to take in an emergency.
- The proper technique for donning and doffing protective clothing will be identified.
- Describes the requirements for entering, working in, and exiting a contamination area.
- The proper use of personnel contamination monitors will be demonstrated.
- Describes the methods used to perform personnel decontamination.

Course Instructional Materials:

- Overhead Projector
- Geiger Counter Beta-Gamma Survey Meter
- Air Proportional Alpha Survey Meter
- Radiation safety postings and signs
- Power Point Presentation
- Class handout

Instructor: Robert Fairchild

Training Compliance Requirements: This course is designed to meet, in part, the requirements of 10CFR835 section 901 (b), which states that each individual shall demonstrate knowledge of radiation safety topics:

1. before being permitted unescorted access to radiological areas, and
2. before performing unescorted assignments as a radiological worker.

Other training, such as EH&S 432 or 438 may also be required depending on the work assignment.

Course Hand-outs:

- Student handbook
- Copy of power point presentation.

Participant Evaluation: Written evaluations regarding the effectiveness of the trainer, the training and the visual aids.

Written Exam: A written exam must be completed with a minimum score of 80%

Practical Exam: Proper donning/doffing of personnel protective equipment (PPE) must be demonstrated.

Retraining/Recertification: Every 2 years.

WEB Resource: see ><http://www.lbl.gov/ehs/html/training.htm><.